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Dallas District 3310 Live Oak Street Dallas, Texas 75204-6191

July 2, 1999

Ref: 99-DAL-WL-20

WARNING LETTER

VIA FACSIMILE AND FEDERAL EXPRESS

Mr. Paul E. Kelly, Director of Sales and Business Development Bird Life Design 4450 Alpha Road Dallas, Texas 75244

Dear Mr. Kelly:

During an inspection of your firm located in Dallas, Texas, on March 15-19, 1999, our investigator determined that your firm manufactures the Pulmanex emergency manual resuscitator and PEEP-FLO adjustable positive end expiratory pressure (peep) valve. These products are devices as defined by Section 201(h) of the Federal Food, Drug, and Cosmetic Act (the Act).

The above-referenced inspection revealed that these devices are adulterated within the meaning of Section 501(h) of the Act, in that the methods used in, or the facilities or controls used for their manufacturing, packing, storage, or installation are not in conformance with the Current Good Manufacturing Practice (CGMP) requirements for devices set forth in the Quality Systems Regulation specified in Title 21, Code of Federal Regulations (CFR), Part 820.

The following violations were provided to you on the FDA-483 (Inspectional Observations) and are discussed below. Further, we are in receipt of your response to the FDA-483, dated April 7, 1999, and the results of that review are also indicated below.

- Failure to analyze processes, work operations, concessions, quality audit reports, quality records, complaints, and other sources of quality data to identify existing and potential causes of non-conforming products, including appropriate statistical methodology to detect recurring quality problems, as required by 21 CFR 820.100(a)(1); and
- 2. Failure to investigate the cause of the nonconformities relating to product, processes, and the quality systems as required by 21 CFR 820.100(a)(2); and

- Failure to identify the action(s) needed to correct and prevent recurrence of nonconforming product and other quality problems as required by 21 CFR 820.100(a)(3); and
- 4. Procedures for addressing the investigation and evaluation of nonconforming product were not followed as required by 21 CFR 820.90(a).

Non-conforming devices were distributed as evidenced in FDA-483 Item 1 and 2 on the FDA-483. In the April 7, 1999 response, you stated "the cause of increased incidence of PEEP-FLO devices was not investigated because the scrap level was not significant to be visible at your Management Review Meetings, and that the Peep valves did not exceed the scrap percentage limit." We disagreed with this rationale. Inspectional records, discussions between the FDA investigator and the firm, and records submitted as part of your FDA-483 response indicated the following deviations:

Bird Life has not defined how scrap will be analyzed, documented, and evaluated for corrective action via a documented procedure. You stated the Quality Manager would review and analyze scrap level on a basis. You did not submit a documented procedure for our review. Further, you have neither defined nor provided this office with the scrap percentage set limit and its basis for review and evaluation. Indicators, such as production scrap, would provide a timely detection of existing or potential quality problems. During the inspection, the FDA investigator asked to review your firm's failure trending data for the non-conforming peep valves that had failed finished product testing. Ms. Natalia Volosen, Quality Assurance Manager, indicated that your firm did not have the trending data for peep valves because it was not a high scrap issue, and that peep valves that failed finished product testing were treated as scrap material and not controlled as non-conforming material. Further, she indicated that this was a business issue and not a quality issue. We found this response inadequate. As per 820.100 (a)(1) and 820.100(a)(7), your firm is required to analyze and document sources of quality data with appropriate statistical methodology to identify existing and potential causes of nonconforming products. Having documentation of trending data or other appropriate means of data collection would provide a feedback to your firm's quality assurance system as to whether or not your firm has a quality problem.

Bird Life should refer to the Preamble comments #30, 154, 155 of the Current Good Manufacturing Practice (CGMP) Final Rule – Quality System Regulation (Federal Register Volume 61, No. 196, Monday October 7, 1996) for correct interpretation of Nonconforming Product.

Sources of quality data, such as production scrap, documented and analyzed are subject to FDA inspection and review. As per 820.180 (General Requirements) and 820.20(c) (Management Review), during the inspection FDA investigators will not

Page 3 – Mr. Paul E. Kelly July 2, 1999

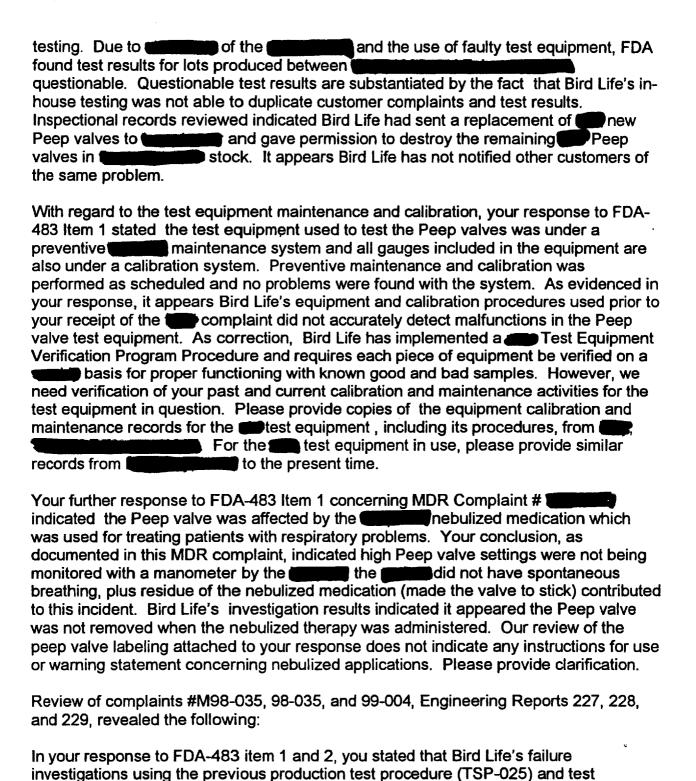
review results of your internal management reviews that were based on the analysis of quality data, e.g., production scrap. However, if your firm takes corrective action as a result of your review of the data analysis, the corrective action and sources of quality data are then subject to the FDA inspection and review.

In the April 7, 1999 response, you indicated it was recently discovered (sometime in

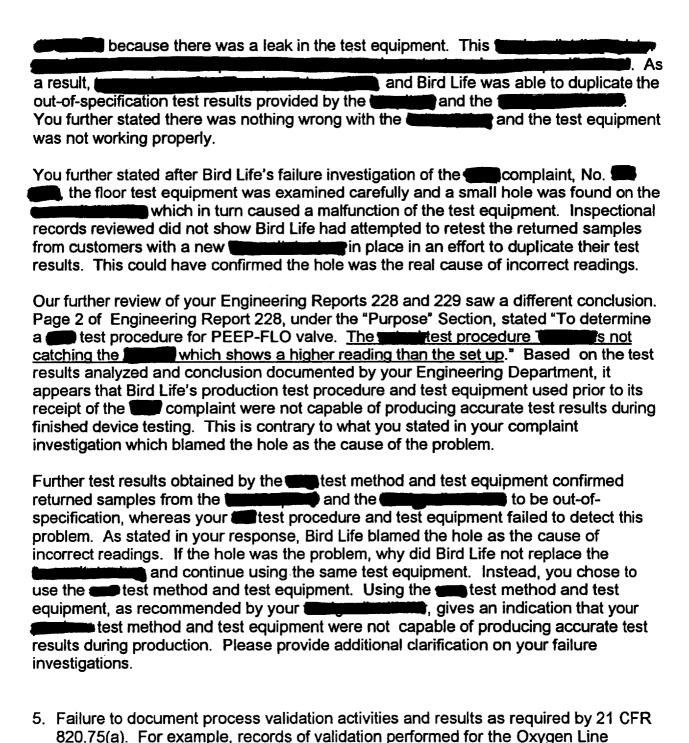
1998), production experienced a lot of problems with the units failing the test (TP-025). Inspectional records reviewed indicated these failures have caused an unapproved modification to the transport of the Peep valve which later resulted in Peep valves with Peep values higher than product specifications. And Peep valves were tested with faulty test equipment for approximately
These two factors allowed the Peep valves to pass finished device testing and later resulted in several complaints. Bird Life failed to follow its Non-Conforming Material Handling and Product Retention Procedure (Doc #5009, dated 6/12/96) in that " a lot of problems with units failing the test (TSP-025)" was not properly evaluated and investigated by the Material Review Board (MRB) or appropriate designated individual(s).
In your response to FDA-483 Item 2, you stated production received verbal approval from QC and Engineering to continue the the and engineering was supposed to get with the vendor to discuss the packaging and any changes made to the Apparently this was not done because your employees continued to the which result in high Peep values, and test the Peep valves with faulty test equipment which failed to detect high readings of Peep values. Your later investigation in February, 1999 indicated there was nothing wrong with the the state of the problem with the test equipment sooner.

Further, your response to FDA-483 Item 1 did not provide the number of lots of Peep valves and the production time frame affected by this event to this office for review (e.g. when is "sometime last year, 1998", how many lots were involved, and what is the scrap percentage). Discussions between the FDA investigator and Ms. Voloson indicated she had neither determined the affected lots nor had time to provide this information during the inspection. This information should have been determined during your complaint investigation prior to the inspection and made available for FDA review at the time of the inspection.

Your response also indicated that because of the small hole on the the test equipment, Bird Life was not able to duplicate several customer complaints of incorrect Peep readings until you got assistance from the test equipment, Bird Life was not able to duplicate several customer complaints of incorrect Peep readings until you got assistance from the test equipment who had also filed a complaint and sent a number of defective Peep valves back to Bird Life for



equipment were not able to duplicate high readings from



Test Fixture #68 were not maintained.

Page 6 – Mr. Paul E. Kelly July 2, 1999

In the April 7, 1999 response, you stated that a former employee performed the original process validation for this test fixture in , and that documentation could not be located. As correction, Bird Life revalidated the line test during the inspection and attached Process Validation Report 99001 to this response. Our review of this validation report identified several deficiencies as follows:

- The validation protocol does not include or reference any applicable test procedures
 to be used. Inspectional records reviewed indicated test procedureTP-100 is
 typically used to test for the line and the housing during production.
 We could not confirm if this test procedure, or if other test procedures, were used
 during the validation.
- The validation protocol and results do not either document or reference calibration of the test fixture and its associated instruments (e.g., timer, pressure gauge).
- The validation protocol identifies product code tested during the validation. It does not indicate whether this product code is representative of the series or other rationales.
- The validation protocol identifies "Pass" and "Fail" as acceptance criteria for the line and/or housing. The known bad units with a completely housing and tubes were tested for the line. The validation does not include testing of the housing and with partial to validate the "Pass" and "Fail" criteria.

We also reviewed your responses to FDA-483 Item 4, 5, 7, 8, 9, 10, 11 for corrective action. Your specific responses to these 483 items appear adequate.

Additionally, the inspection revealed that Peep valves are misbranded within the meaning of Section 502(t)(2) of the Act in that your firm failed to make reports that are required under Section 519. Specifically, your firm failed to submit Medical Device Malfunction Reports as required by 21 CFR 803.50(a)(2) for the following:

- Complaint File reported high readings with Bird Life's Peep valves.
- Complaint File indicated that Bird Life's Peep valves raised residual peep even when dialed out past zero.

In addition, you failed to submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for PEEP-FLO valves located at a submit a written report to FDA of the correction you initiated for the correction you in the peep report yo

A March 5, 1999 letter to advise advises the firm to destroy PEEP-FLO valves in stock and refers to the shipment of replacement valves. The letter explains the reason for the replacement, i.e., Bird Life's test equipment did not "flag" devices with high peep settings. Your action meets the definition in 21 CFR 806.2(d) of a correction. FDA considers the correction to have been initiated to reduce a risk to health posed by the device. A risk to health is defined in 21 CFR 806.2(j)(2), to mean that the use of, or exposure to, the product may cause temporary medically reversible adverse health consequences, or an outcome where the probability of serious adverse health consequences is remote.

This letter is not intended to be an all-inclusive list of deficiencies at your facility. It is Bird Life's responsibility to ensure adherence to each requirement of the Act and regulations. The specific violations noted in this letter and in the FDA-483 issued at the closeout of the inspection may be symptomatic of serious underlying problems in your firm's manufacturing and quality assurance systems. You are responsible for investigating and determining the causes of the violations identified by the FDA. If the causes are determined to be systems problems, you must promptly initiate permanent corrective actions.

Until these violations are corrected, and FDA has documentation to establish that such corrections have been made, federal agencies will be advised of the issuance of this Warning Letter so that they may take this information into account when considering the award of contracts.

You should take prompt action to correct these deviations. Failure to promptly correct these deviations may result in regulatory action being initiated by the Food and Drug Administration without further notice. These actions include, but are not limited to, seizure, injunction, and/or civil penalties.

Please notify this office in writing within 15 working days of receipt of this letter, of the specific steps you have taken to identify and correct any underlying systems problems necessary to assure that similar violations will not recur. If corrective action cannot be completed within 15 working days, state the reason for the delay and the time frame within which the corrections will be completed.

Page 8 – Mr. Paul E. Kelly July 2, 1999

Your reply should be directed to Thao Ta, Acting Compliance Officer, at the above letterhead address.

Sincerely yours,

Joseph R. Baca

Dallas District Director

cc: Mr. Tony Van Den Berg, President

Mr. Burt Boss, Vice President Operations

Thermo Respiratory Group 1100 Bird Center Drive Palm Springs, CA 92262